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<input type="checkbox"/>	L38	L19 and L32	1
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<input type="checkbox"/>	L1	computer.clm. and medium.clm. and network	27909

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- ☐ 21. **Frequency-domain Green's function for a planar periodic semi-infinite ph**
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- ☐ **26. P-3PC: a point-to-point communication model for automatic and optimal of regular domain problems**
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- ☐ **27. Reliability constrained routing in QoS networks**
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↑ ABSTRACT

We consider the problem of creating a map between two arbitrary triangle meshes. Whereas previous approaches compose parametrizations over a simpler intermediate domain, we directly create and optimize a continuous map between the meshes. Map distortion is measured with a new symmetric metric, and is minimized during interleaved coarse-to-fine refinement of both meshes. By explicitly favoring low inter-surface distortion, we obtain maps that naturally align corresponding shape elements. Typically, the user need only specify a handful of feature correspondences for initial registration, and even these constraints can be removed during optimization. Our method robustly satisfies hard constraints if desired. Inter-surface mapping is shown using geometric and attribute morphs. Our general framework can also be applied to parametrize surfaces onto simplicial domains, such as coarse meshes (for semi-regular remeshing), and octahedron and toroidal domains (for geometry image remeshing). In these settings, we obtain better parametrizations than with previous specialized techniques, thanks to our fine-grain optimization.

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↑ INDEX TERMS

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